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Proposed Maximum Residue Limit PMRL2018-15

Pydiflumetofen

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has received applications to register technical grade pydiflumetofen and the end-use products A19649 Fungicide and A19649TO Fungicide on various commodities. Applications were also received to register A20259 Fungicide, containing pydiflumetofen and difenoconazole; A20560 Fungicide, containing pydiflumetofen and fludioxonil; and A21461 Fungicide containing pydiflumetofen, azoxystrobin and propiconazole for use in Canada on various commodities. Consultation on the MRLs for fludioxonil is being conducted under a separate action while relevant MRLs for azoxystrobin, difenoconazole and propiconazole can be found in the Maximum Residue Limit Database.

The evaluation of these pydiflumetofen applications indicated that the end-use products have value, and the human health and environmental risks associated with their proposed uses are acceptable. Details regarding these applications can be found in Proposed Registration Decision PRD2018-11, *Pydiflumetofen*, posted to the Health Canada section of Canada.ca on 6 April 2018.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally specified as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

In addition, the PMRA is proposing to specify MRLs for pydiflumetofen on oats and quinoa to permit the import and sale of food containing such residues. The PMRA has determined the quantity of residues that are likely to remain in or on the imported commodities when pydiflumetofen is used according to label directions in the exporting country, and that such residues will not be a concern to human health. Details regarding the proposed MRLs on imported commodities can also be found in PRD2018-11.

Consultation on the proposed MRLs for pydiflumetofen is being conducted via PRD2018-11. Information regarding the proposed MRLs can be found in Sections 3.5.4 and 7.1. Supporting field trial residue data are also provided in the PRD. The PMRA invites the public to submit written comments on the proposed MRLs for pydiflumetofen in accordance with the guidance found in PRD2018-11.

To comply with Canada's international trade obligations, consultation on the proposed MRL is also being conducted internationally by notifying the World Trade Organization, as coordinated by Canada's Notification Authority and Enquiry Point.

The proposed MRLs for pydiflumetofen are as follows:

Table 1 Proposed Maximum Residue Limits for Pydiflumetofen

Common Name	Residue Definition	MRL (ppm)[1]	Food Commodity
Pydiflumetofen	3-(difluoromethyl)-*N*-methoxy-1-methyl-*N*-[1-methyl-2-(2,4,6-trichlorophenyl)ethyl]-1*H*-pyrazole-4-carboxamide	40	Leafy greens (crop subgroup 4-13A)
		15	Leaf petioles vegetables (crop subgroup 22B)
		4.0	Barley, quinoa
		3.0	Dried tomatoes, oats
		2.0	Raisins
		1.5	Small fruits vine climbing , except fuzzy kiwifruit (crop subgroup 13-07F)
		0.9	Rapeseeds (revised) (crop subgroup 20A)
		0.6	Fruiting vegetables (crop group 8-09), wheat bran
		0.5	Cucurbit vegetables (crop group 9)
		0.4	Dried shelled pea and bean (except soybean) (crop subgroup 6C), dry soybeans, wheat germ
		0.3	Rye, triticale, wheat
		0.05	Peanut oil (refined)
		0.03	Fat and meat byproducts of cattle, goats, horses and sheep, milk
		0.02	Field corn flour, peanuts
		0.015	Tuberous and corm vegetables (crop subgroup 1C), field corn, popcorn grain
		0.01	Eggs, fat, meat, meat byproducts of hogs and poultry, meat of cattle, goats, horses and sheep, sweet corn kernels plus cob with husks removed

[1] ppm = parts per million

MRLs are proposed for each commodity included in the listed crop groupings in accordance with the Residue Chemistry Crop Groups webpage in the Pesticides and Pest Management section of the Canada.ca website.

MRLs established in Canada may be found using the Maximum Residue Limit Database on the Maximum Residue Limits for Pesticides webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International Situation and Trade Implications

Pydiflumetofen is a new active ingredient that is concurrently being registered in Canada and the United States. The MRLs proposed for pydiflumetofen in Canada are the same as corresponding tolerances to be promulgated in the United States, except for wheat bran and certain (livestock) commodities, in accordance with Table 2.

Once established, the American tolerances for pydiflumetofen will be listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide.

Currently, there are no Codex MRLs[1] listed for pydiflumetofen in or on any commodity on the Codex Alimentarius Pesticide Index webpage.

Table 2 Comparison of Canadian MRLs and American Tolerances (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)
Wheat bran	0.6	Not established
Eggs, fat, meat and meat byproducts of poultry	0.01	Not required[1]
Fat, meat and meat byproducts of hogs	0.01	0.03

[1] As per 40CFR180.6(a) for livestock.

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for pydiflumetofen up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs. Comments received will be addressed in a separate document linked to this PMRL. The established MRLs will be legally in effect as of the date that they are entered into the Maximum Residue Limit Database.

[1] The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.